Cheerwing 1005

Cheerwing 1:10 Brushless RC Car Instruction Manual

Model: Cheerwing 1:10 (Manufacturer Part Number: 1005)

Brand: Cheerwing

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1. Introduction

This manual provides essential instructions for the safe operation, setup, maintenance, and troubleshooting of your Cheerwing 1:10 Brushless RC Car. Please read this manual thoroughly before operating the vehicle to ensure proper function and to prevent damage or injury.



Front view of the Cheerwing 1:10 Brushless RC Car, highlighting its high-speed capability and the powerful brushless motor and Electronic Speed Controller (ESC) components.

The Cheerwing 1:10 Brushless RC Car is designed for high-performance remote control racing and drifting. It features a powerful Hobbywing 3652-4500KV brushless motor and a 60A brushless ESC, enabling speeds exceeding 70 KM/H. The vehicle is equipped with an ESP electronic stability system, high-brightness LED lights, an all-metal chassis, adjustable connecting rods, a 6KG steering servo, and independent suspension springs for enhanced stability and control. The 2.4G remote control system offers a 300-meter range.

2. Safety Information

Always prioritize safety when operating your RC car. Failure to follow these guidelines may result in injury or damage to the product or property.

- **Adult Supervision:** This product is recommended for adults. Children operating the vehicle should always be under direct adult supervision.

- **Operating Environment:** Operate the RC car in open, clear areas away from people, pets, vehicles, and obstacles. Avoid public roads, crowded areas, and wet conditions.
- **Battery Safety:** Use only the specified 2S 7.4V 3000mAh LiPo battery. Do not overcharge or over-discharge the battery. Store batteries in a fire-safe container and away from flammable materials. Discontinue use if the battery shows signs of damage or swelling.
- **Heat Warning:** The motor and ESC can become hot during operation. Avoid touching these components immediately after use to prevent burns.
- **Moving Parts:** Keep fingers, hair, and loose clothing away from all rotating parts, such as wheels and drivetrain components, to prevent entanglement.
- **Water Exposure:** While the vehicle may have some water resistance, it is not waterproof. Avoid driving through deep puddles or in heavy rain to prevent damage to electronic components.
- **Pre-Operation Check:** Before each use, inspect the vehicle for any loose parts, damaged components, or signs of wear. Ensure all connections are secure.

3. Package Contents

Verify that all items listed below are included in your package:

- 1x Cheerwing 1:10 Scale 2/4WD Muscle Car
- 1x DUMBO X5E Remote Control
- 1x 7.4V 3000mAh LiPo Battery
- 1x Battery Charger
- 1x Operation Guide (this manual)
- 1x Body Stickers



Contents of the product package, including the 1:10 scale RC car, DUMBO X5E remote control, 7.4V 3000mAh LiPo battery, operation guide, and body stickers.

4. Setup

4.1. Charging the LiPo Battery

1. Connect the provided charger to a power outlet.

2. Connect the 7.4V 3000mAh LiPo battery to the charger. Ensure correct polarity.
3. Allow the battery to charge fully. Refer to the charger's indicator lights for charging status. Do not leave charging batteries unattended.
4. Once fully charged, disconnect the battery from the charger.

4.2. Installing the Vehicle Battery

1. Remove the body shell of the RC car (usually secured by body clips).
2. Locate the battery compartment.
3. Insert the charged LiPo battery into the compartment.
4. Connect the battery to the vehicle's ESC power connector. Ensure a secure connection.
5. Secure the battery within the compartment and reattach the body shell.

4.3. Remote Control Setup

1. Install 4x AA batteries (not included) into the DUMBO X5E remote control. Observe correct polarity.
2. Turn on the remote control.
3. Turn on the RC car. The vehicle and remote control should automatically bind. If not, refer to the remote control's specific binding instructions (usually involves holding a bind button on the receiver while powering on the car).

Close-up view of the DUMBO X5E remote control and the 7.4V 3000mAh LiPo battery, essential components for operating the RC car.

5. Operating Instructions

5.1. Basic Controls

- **Throttle Trigger:** Pull the trigger to accelerate forward. Push the trigger to brake or reverse.
- **Steering Wheel:** Turn the wheel left or right to steer the vehicle.

5.2. Advanced Features

- **ESP Electronic Stability System:** The built-in gyroscope helps prevent the vehicle from slipping and rolling, enhancing control, especially during high-speed maneuvers.
- **LED Lights:** The front and rear of the car are equipped with high-brightness LED lights for improved visibility, particularly in low-light conditions. The taillights feature an automatic three-color linkage.
- **Throttle Speed Limit:** The remote control allows for adjusting the throttle speed limit, useful for beginners or operating in smaller spaces.
- **Steering Fine-Tuning:** Use the trim adjustments on the remote control to fine-tune steering for straight tracking.



Rear view of the RC car showcasing the automatically adjustable three-color linkage taillights.

5.3. Driving Tips

- Start with slow speeds to familiarize yourself with the controls.
- Practice steering and throttle control in an open area.
- Avoid sudden stops or turns at high speeds to prevent rollovers.
- Monitor battery levels and stop operation when the battery is low to prevent over-discharge.

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Video demonstrating the Cheerwing 1:10 Brushless RC Car in action, showcasing its speed and maneuverability on various terrains.

6. Maintenance

Regular maintenance will extend the lifespan and performance of your RC car.

- **Cleaning:** After each use, especially in dusty or dirty conditions, clean the vehicle with a soft brush or compressed air to remove dirt and debris. Avoid using water directly on electronic components.
- **Inspection:** Periodically check all screws, nuts, and bolts for tightness. Inspect the tires for wear and tear, and the suspension components for damage.
- **Lubrication:** Apply appropriate RC-grade lubricant to moving parts of the drivetrain and suspension as needed.
- **Battery Storage:** For long-term storage, charge LiPo batteries to a storage voltage (typically 3.8V per cell) and store them in a cool, dry place away from direct sunlight.



Diagram illustrating the durable all-metal drivetrain, metal gear differential, low-gravity horizontal suspension, and 6KG digital steering servo of the RC car.

7. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Vehicle does not respond	Low battery in vehicle or remote; Not powered on; Not bound.	Charge vehicle battery; Replace remote batteries; Ensure both are powered on; Re-bind remote and vehicle.
Reduced range or intermittent control	Interference; Low remote battery.	Move to an area with less interference; Replace remote batteries.
Vehicle pulls to one side	Steering trim incorrect; Damaged steering components.	Adjust steering trim on the remote; Inspect steering servo and linkages for damage.
Motor not running or running slowly	Low vehicle battery; Motor or ESC overheating; Damaged motor/ESC.	Charge vehicle battery; Allow components to cool down; Contact support if components are damaged.
Lights not working	Loose connection; Damaged LED.	Check wiring connections; Contact support for replacement parts.

8. Specifications

Feature	Detail
Brand	Cheerwing
Model Name	Cheerwing 1:10
Manufacturer Part Number	1005
Scale	1:10
Motor Type	Brushless (Hobbywing 3652-4500KV)
ESC	60A Brushless
Maximum Speed	70+ KM/H
Battery	2S 7.4V 3000mAh LiPo (35C discharge rate)
Remote Control System	2.4G, 6-channel
Control Range	Up to 300 meters
Chassis Material	All-metal Aluminum Alloy
Steering Servo	6KG Digital
Suspension	Independent Suspension Springs
Stability System	ESP Electronic Stability System (built-in gyroscope)
Lighting	High-brightness LED front and rear lights, automatic three-color linkage taillights
Dimensions (L x W x H)	18.8 x 8.2 x 6.2 inches
Weight	4.2 Pounds
Recommended Age	Adult (168 months minimum)



The RC car shown with its key dimensions (length, width, height) and the 2.4GHz remote control, indicating a 300-meter control range.



Front-side view of the RC car on a dirt track, with an inset image detailing the aluminum alloy chassis for enhanced durability.

9. Warranty and Support

Cheerwing products are manufactured to high-quality standards. For specific warranty details, please refer to the warranty card included in your product packaging or visit the official Cheerwing website. If you encounter any issues or require technical assistance, please contact Cheerwing customer support through the retailer where the product was purchased or via the contact information provided on the official Cheerwing website.

Contact Information: Please refer to your purchase documentation or the Cheerwing official website for the most up-to-date customer support contact details.

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